ANTIBODIES ONLINE

Datasheet for ABIN2859232 IL-37 ELISA Kit

1 Image

2 Publications



Overview

Quantity:	96 tests
Target:	IL-37 (IL37)
Binding Specificity:	AA 46-218
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human IL-37
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: V46-D218
Specificity:	Expression system for standard: E.coli Immunogen sequence: V46-D218
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN2859232 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

blved in educes,
educes,
SF1, CSF2,
dendritic cell
s encoded by
l cytokine
vas a secretor
ptive immunit
iction of
stemic lupus
itra- and
s a new anti-
jury during
erleukin-1
-
B leads to
d mature form

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN2859232 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the IL-1 family.
	Tissue Specificity: In general, low constitutive expression, if any, in healthy tissues, high
	expression in inflammatory counterparts, including in synovial tissues from individuals with
	active rheumatoid arthritis. Isoform A, isoform B and isoform C are expressed in testis, colon,
	placenta, lung and lymph node. Isoform D and isoform E were found only in testis and bone
	marrow. Whereas only isoform A is found in brain, only isoform B in kidney and only isoform C
	in heart
Plate:	Pre-coated
Protocol:	human IL-37 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from mouse specific for IL-37 has been precoated onto 96-
	well plates. Standards(E.coli, V46-D218) and test samples are added to the wells, a biotinylated
	detection polyclonal antibody from goat specific for IL-37 is added subsequently and then
	followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and
	unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used
	to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color
	product that changed into yellow after adding acidic stop solution. The density of yellow is
	proportional to the human IL-37 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL,
	31.3pg/mL, 15.6pg/mL human IL-37 standard solutions into the pre-coated 96-well plate. Add
	0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
	properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. We recommend that each
	human IL-37 standard solution and each sample is measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 37.7, Standard deviation: 1.39, CV(%): 3.7
	 Sample 2: n=16, Mean(pg/ml): 118, Standard deviation: 5.43, CV(%): 4.6 Sample 2: n= 16, Mean(cg/ml): 601, Standard deviation: 20, 01, OV(%): 5.2
	 Sample 3: n=16, Mean(pg/ml): 621, Standard deviation: 32.91, CV(%): 5.3, Sample 1: n=24, Mean(pg/ml): 216, Standard deviation: 12.3, CV(%): 5.7
	 Sample 1: n=24, Mean(pg/ml): 365, Standard deviation: 15.33, CV(%): 4.2
	• Sample 3: n=24, Mean(pg/ml): 610, Standard deviation: 39.04, CV(%): 6.4
Restrictions:	For Research Use only

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN2859232 | 07/26/2024 | Copyright antibodies-online. All rights reserved.

Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months
Publications	
Product cited in:	DAngelo, Reale, Costantini, Di Nicola, Porfilio, de Andrés, Fernández-Paredes, Sánchez-Ramón, Pasquali: "Profiling of Canonical and Non-Traditional Cytokine Levels in Interferon-β-Treated Relapsing-Remitting-Multiple Sclerosis Patients." in: Frontiers in immunology , Vol. 9, pp. 1240, (2018) (PubMed).
	Yu, Lu, Li, Xiao, Xing, Li, Wu: "Role of S100A1 in hypoxia-induced inflammatory response in cardiomyocytes via TLR4/ROS/NF-?B pathway." in: The Journal of pharmacy and pharmacology , Vol. 67, Issue 9, pp. 1240-50, (2015) (PubMed).

Images



ELISA

Image 1. Human IL-37/IL1F7 PicoKine ELISA Kit standard curve